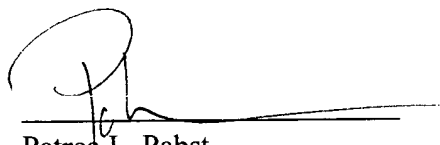


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TRANSMITTAL OF SEQUENCE
LISTING, AMENDMENT AND
DECLARATION UNDER
37 C.F.R. § 1.821 (F)

the knowledge that willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Respectfully submitted,


Patrea L. Pabst
Reg. No. 31,284

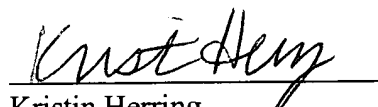
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Certificate of Mailing under 37 CFR §1.8(a)

I hereby certify that this Transmittal of Sequence Listing, Amendment and Declaration under 37 C.F.R. §1.821 (f), along with any paper referred to as being attached or enclosed, is being deposited with the United States Postal Service on the date shown below with sufficient postage as first-class mail in an envelope addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231.

Date: April 28, 1999


Kristin Herring